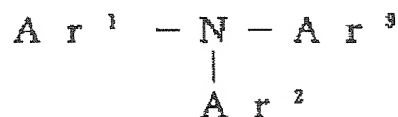


EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 08199162
PUBLICATION DATE : 06-08-96



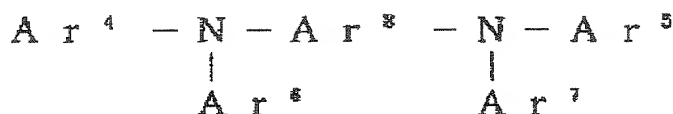
APPLICATION DATE : 26-01-95
APPLICATION NUMBER : 07010918

APPLICANT : IDEMITSU KOSAN CO LTD;

INVENTOR : KAWAMURA HISAYUKI;

INT.CL. : C09K 11/06 H05B 33/14

TITLE : ORGANIC ELECTROLUMINESCENCE
ELEMENT



II

ABSTRACT : PURPOSE: To produce the subject element having long life to cause little variation of the luminescent color after driving for a long period, exhibiting high luminescent efficiency and suitable for a display for information industry equipments, etc., by adding a specific amount of a specific fluorescent dopant to a recombination area and a light-emitting area.

CONSTITUTION: This organic electroluminescence element is provided with an organic compound layer having a recombination area to cause the recombination of holes and electrons and a light-emitting area to emit light in response to the recombination and a pair of electrodes sandwiching the organic compound layer. The recombination area or the light-emitting area contains 0.1-8wt.% of a fluorescent dopant consisting of a compound of formula I (Ar¹ to Ar³ are each a 1-10C alkyl, a 6-30C aryl or a heterocyclic group and at least one of the groups is a ≥12C condensed polycyclic hydrocarbon group) or a compound of formula II (Ar⁴ to Ar⁷ are each a 1-10C alkyl, a 6-30C aryl or a heterocyclic group; Ar⁸ is a 6-30C arylene or a bivalent heterocyclic group; at least one of Ar⁴ to Ar⁸ is a ≥12C condensed polycyclic hydrocarbon group).

COPYRIGHT: (C)1996,JPO